

IPW

PATENT
ATTORNEY DOCKET NO. 50304/112001

Certificate of Mailing: Date of Deposit: September 29, 2006

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Christine E. Fort

Printed name of person mailing correspondence

Signature of person mailing correspondence

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Applicant: Jean-Marie SAINT-REMY et al. Confirmation No.: 9175

Serial No.: 10/566,851 Art Unit: 1645

Filed: February 1, 2006 Examiner: Not Yet Assigned

Customer No.: 21559

Title: VARIABLE ANTIBODIES

Commissioner for Patents
P.O. Box 1450
Alexandria, VA 22313-1450

PETITION TO CORRECT FILING RECEIPT

Applicant requests that the enclosed filing receipt be corrected as follows.

Applicant(s)

In the Applicant(s) section, please make the following change:

Change the spelling of inventor name “Marc Jacqumin” to “Marc Jacquemin.”

Enclosed are copies of the incorrect filing receipt and the national phase

transmittal, the application data sheet, and the first page of International Publication No.

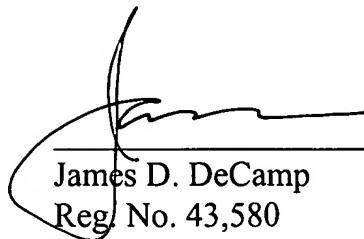
WO 2005/016455 A2 as filed on February 1, 2006.

If there are any charges or any credits, please apply them to Deposit Account No.

03-2095.

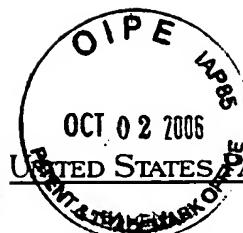
Respectfully submitted,

Date: 29- Sep -2006



James D. DeCamp
Reg. No. 43,580

Clark & Elbing LLP
101 Federal Street
Boston, MA 02110
Telephone: 617-428-0200
Facsimile: 617-428-7045



UNITED STATES PATENT AND TRADEMARK OFFICE

UNITED STATES DEPARTMENT OF COMMERCE
 United States Patent and Trademark Office
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APPL NO.	FILING OR 371 (c) DATE	ART UNIT	FIL FEE REC'D	ATTY.DOCKET NO	DRAWINGS	TOT CLMS	IND CLMS
10/566,851	02/01/2006	1645	675	50304112001	14	24	2

DE-DOCKETED

CONFIRMATION NO. 9175

21559
 CLARK & ELBING LLP
 101 FEDERAL STREET
 BOSTON, MA 02110

FILING RECEIPT



OC000000020540651

Date Mailed: 09/22/2006

Receipt is acknowledged of this regular Patent Application. It will be considered in its order and you will be notified as to the results of the examination. Be sure to provide the U.S. APPLICATION NUMBER, FILING DATE, NAME OF APPLICANT, and TITLE OF INVENTION when inquiring about this application. Fees transmitted by check or draft are subject to collection. Please verify the accuracy of the data presented on this receipt. If an error is noted on this Filing Receipt, please mail to the Commissioner for Patents P.O. Box 1450 Alexandria Va 22313-1450. Please provide a copy of this Filing Receipt with the changes noted thereon. If you received a "Notice to File Missing Parts" for this application, please submit any corrections to this Filing Receipt with your reply to the Notice. When the USPTO processes the reply to the Notice, the USPTO will generate another Filing Receipt incorporating the requested corrections (if appropriate).

Applicant(s)

Jean-Marie Saint-Remy, Grez-Doiceau, BELGIUM;
 Marc Jacquemin, Sart-Bernard, BELGIUM;
 Marc Jacquemin

Assignment For Published Patent Application

D. COLLEN RESEARCH FOUNDATION VZW, Leuven, BELGIUM

Power of Attorney: The patent practitioners associated with Customer Number 21559.**Domestic Priority data as claimed by applicant**

This application is a 371 of PCT/BE04/00118 08/16/2004

Foreign Applications

UNITED KINGDOM 0319118.6 08/14/2003

UNITED KINGDOM 0319345.5 08/18/2003

If Required, Foreign Filing License Granted: 09/21/2006**The country code and number of your priority application, to be used for filing abroad under the Paris Convention, is **US10/566,851******Projected Publication Date:** 12/28/2006**Non-Publication Request:** No**Early Publication Request:** No

**** SMALL ENTITY ******Title**

Variable antibodies

Preliminary Class

435

PROTECTING YOUR INVENTION OUTSIDE THE UNITED STATES

Since the rights granted by a U.S. patent extend only throughout the territory of the United States and have no effect in a foreign country, an inventor who wishes patent protection in another country must apply for a patent in a specific country or in regional patent offices. Applicants may wish to consider the filing of an international application under the Patent Cooperation Treaty (PCT). An international (PCT) application generally has the same effect as a regular national patent application in each PCT-member country. The PCT process **simplifies** the filing of patent applications on the same invention in member countries, but **does not result** in a grant of "an international patent" and does not eliminate the need of applicants to file additional documents and fees in countries where patent protection is desired.

Almost every country has its own patent law, and a person desiring a patent in a particular country must make an application for patent in that country in accordance with its particular laws. Since the laws of many countries differ in various respects from the patent law of the United States, applicants are advised to seek guidance from specific foreign countries to ensure that patent rights are not lost prematurely.

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Applicants may wish to consult the USPTO booklet, "General Information Concerning Patents" (specifically, the section entitled "Treaties and Foreign Patents") for more information on timeframes and deadlines for filing foreign patent applications. The guide is available either by contacting the USPTO Contact Center at 800-786-9199, or it can be viewed on the USPTO website at <http://www.uspto.gov/web/offices/pac/doc/general/index.html>.

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OCT 02 2006

Certificate of Mailing

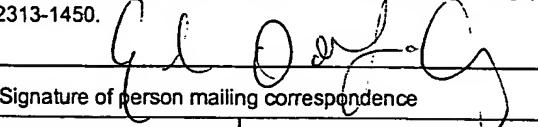
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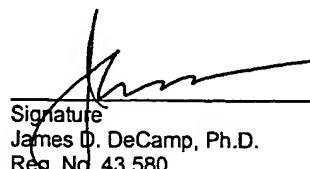
Substitute Form PTO 1390 U.S. Department of Commerce Patent and Trademark Office		Attorney Docket Number: 50304/112001
TRANSMITTAL LETTER TO THE UNITED STATES DESIGNATED/ELECTED OFFICE (DO/EO/US) CONCERNING A FILING UNDER 35 U.S.C. § 371		U.S. Application Number: Not Yet Assigned
INTERNATIONAL APPLICATION NUMBER		INTERNATIONAL FILING DATE
PCT/BE2004/000118		August 16, 2004
PRIORITY DATE CLAIMED		August 14, 2003
TITLE OF INVENTION: VARIABLE ANTIBODIES		
APPLICANTS FOR DO/EO/US: Jean-Marie SAINT-REMY and Marc JACQUEMIN		
Applicant herewith submits to the United States Designated/Elected Office (DO/EO/US) the following items and other information:		
1.	<input checked="" type="checkbox"/> This is a FIRST submission of items concerning a filing under 35 U.S.C. § 371.	
2.	<input type="checkbox"/> This is a SECOND or SUBSEQUENT submission of items concerning a filing under 35 U.S.C. § 371.	
3.	<input checked="" type="checkbox"/> This is an express request to begin national examination procedures (35 U.S.C. § 371(f)).	
4.	<input checked="" type="checkbox"/> The U.S. has been elected.	
5.	<input checked="" type="checkbox"/> A copy of the International Application (35 U.S.C. § 371(c)(2)). <input checked="" type="checkbox"/> a. is transmitted herewith (required only if not transmitted by the International Bureau). <input checked="" type="checkbox"/> b. has been transmitted by the International Bureau. <input checked="" type="checkbox"/> c. Is not required, as the application was filed with the United States Receiving Office (RO/US).	
6.	<input type="checkbox"/> An English language translation of the International Application into English (35 U.S.C. § 371(c)(2)). <input type="checkbox"/> a. is transmitted herewith. <input type="checkbox"/> b. has been previously submitted under 35 U.S.C. 154(d)(4).	
7.	<input type="checkbox"/> Amendments to the claims of the International Application under PCT Article 19 (35 U.S.C. § 371(c)(3)). <input type="checkbox"/> a. are transmitted herewith (required only if not transmitted by the International Bureau). <input type="checkbox"/> b. have been transmitted by the International Bureau. <input type="checkbox"/> c. have not been made; however, the time limit for making such amendments has NOT expired. <input type="checkbox"/> d. have not been made and will not be made.	
8.	<input type="checkbox"/> An English language translation of the amendments to the claims under PCT Article 19 (35 U.S.C. § 371(c)(3)).	
9.	<input checked="" type="checkbox"/> An oath or declaration of the inventors (35 U.S.C. § 371(c)(4)).	
10.	<input type="checkbox"/> An English language translation of the annexes to the International Preliminary Examination Report under PCT Article 36 (35 U.S.C. § 371 (c)(5)).	
11.	<input checked="" type="checkbox"/> An Information Disclosure Statement under 37 C.F.R. §§ 1.97 and 1.98.	
12.	<input type="checkbox"/> An assignment for recording. A separate cover sheet in compliance with 37 C.F.R. §§ 3.28 and 3.31 is included.	
13.	<input checked="" type="checkbox"/> A preliminary amendment.	
14.	<input type="checkbox"/> A substitute specification.	
15.	<input type="checkbox"/> A power of attorney and/or change of address letter.	
16.	<input type="checkbox"/> Request for Deferred Examination.	
17.	<input checked="" type="checkbox"/> Application Data Sheet.	
18.	<input checked="" type="checkbox"/> Other items or information: WO 2005/016455 A2 (122pp.); Form PCT/IB/311 (1p.); PCT Request (11pp.); Form PCT/IPEA/401 (4pp.) Sequence Listing (17pp.); Sequence Statement (2pp.); Sequence Diskette (1 disc)	
19.	<input checked="" type="checkbox"/> The following fees are submitted:	

Basic National Stage Fee: \$300				\$ 300.00																									
National Stage Search Fee If the written opinion prepared by ISA/US or the international preliminary examination report prepared by IPEA/US indicates all claims satisfy provisions of PCT Article 33(1)-(4): \$0 Search fee (37 C.F.R. § 1.445(a)(2)) has been paid on the international application to the USPTO as an International Search Authority: \$100 International Search Report prepared by an ISA other than the US and provided to the Office or previously communicated to the US by the IB: \$400 All other situations: \$500				\$ 500.00																									
National Stage Examination Fee If the written opinion prepared by ISA/US or the international preliminary examination report prepared by IPEA/US indicates all claims satisfy provisions of PCT Article 33(1)-(4): \$0 All other situations: \$200				\$ 200.00																									
Surcharge of \$130 for furnishing any of the search fee, examination fee, or the oath or declaration after the date of commencement of the national stage (37 C.F.R. § 1.492(h)).				\$																									
<table border="1"> <thead> <tr> <th>CLAIMS</th> <th>NUMBER FILED</th> <th>NUMBER EXTRA</th> <th>RATE</th> <th></th> <th></th> </tr> </thead> <tbody> <tr> <td>Total claims</td> <td>24 - 20 =</td> <td>4</td> <td>x \$50</td> <td>\$ 200.00</td> <td></td> </tr> <tr> <td>Independent claims</td> <td>2 - 3 =</td> <td>0</td> <td>x \$200</td> <td>\$ 0</td> <td></td> </tr> <tr> <td colspan="3">Multiple dependent claims (if applicable)</td> <td>+ \$360</td> <td>\$ 0</td> <td></td> </tr> </tbody> </table>						CLAIMS	NUMBER FILED	NUMBER EXTRA	RATE			Total claims	24 - 20 =	4	x \$50	\$ 200.00		Independent claims	2 - 3 =	0	x \$200	\$ 0		Multiple dependent claims (if applicable)			+ \$360	\$ 0	
CLAIMS	NUMBER FILED	NUMBER EXTRA	RATE																										
Total claims	24 - 20 =	4	x \$50	\$ 200.00																									
Independent claims	2 - 3 =	0	x \$200	\$ 0																									
Multiple dependent claims (if applicable)			+ \$360	\$ 0																									
Application Size Fee: Additional fee for specification and drawings in paper over 100 sheets (excluding sequence listing or computer program listing filed in an electronic medium). The fee is \$250 for each additional 50 sheets of paper or fraction thereof.																													
<table border="1"> <thead> <tr> <th>TOTAL SHEETS</th> <th>EXTRA SHEETS</th> <th>Number of each additional 50 sheets or fraction thereof (round up to a whole number)</th> <th>RATE</th> <th></th> <th></th> </tr> </thead> <tbody> <tr> <td>122-100=</td> <td>22/50=</td> <td>1</td> <td>X\$250</td> <td>\$ 250.00</td> <td></td> </tr> </tbody> </table>						TOTAL SHEETS	EXTRA SHEETS	Number of each additional 50 sheets or fraction thereof (round up to a whole number)	RATE			122-100=	22/50=	1	X\$250	\$ 250.00													
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122-100=	22/50=	1	X\$250	\$ 250.00																									
TOTAL OF ABOVE CALCULATIONS = \$ 1,450.00																													
Reduction of 1/2 for filing by small entity, if applicable. Applicant claims small entity status under 37 C.F.R. § 1.27.																													
SUBTOTAL = \$ 725.00																													
Processing fee of \$130.00 for furnishing the English translation later than 30 months from the earliest claimed priority date (37 C.F.R. § 1.492(f)). + \$																													
TOTAL NATIONAL FEE = \$ 725.00																													
Fee for recording the enclosed assignment (37 C.F.R. 1.21(h)). The assignment must be accompanied by an appropriate cover sheet (37 C.F.R. §§ 3.28, 3.31). \$40.00 per property. + \$																													
TOTAL FEES ENCLOSED = \$ 725.00																													
				Amount to be refunded	\$																								
				charged	\$																								
<input checked="" type="checkbox"/> a. Enclosed is a check for \$ 725.00 to cover the total fees. <input type="checkbox"/> b. Enclosed is a check for [**\$300/\$150**] to cover the basic national stage fee; no other fees are being paid at this time. <input type="checkbox"/> c. Please charge my Deposit Account No. 03-2095 in the amount of \$[*] to cover the above fees. <input checked="" type="checkbox"/> d. The Commissioner is hereby authorized to charge any additional fees which may be required, or credit any overpayment, to Deposit Account No. 03-2095.																													
NOTE: Where an appropriate time limit under 37 C.F.R. §§ 1.494 or 1.495 has not been met, a petition to revive (37 C.F.R. § 1.137(a) or (b) must be filed and granted to restore the application to pending status.																													

SEND ALL CORRESPONDENCE TO:

James D. DeCamp, Ph.D.
Clark & Elbing LLP
101 Federal Street
Boston, MA 02110-2214

Telephone: 617-428-0200
Facsimile: 617-428-7045
Customer No.: 21559


Signature
James D. DeCamp, Ph.D.
Reg. No. 43,580



Application Data Sheet

Application Information

Application number::

Filing Date:: February 1, 2006

Application Type:: Regular

Subject Matter:: Utility

Suggested Classification::

Suggested Group Art Unit::

CD-ROM or CD-R?:: Listing

Number of CD disks:: 1

Number of copies of CDs:: 1

Sequence submission?:: CD

Computer Readable Form (CRF)?:: Yes

Number of copies of CRF:: 1

Title:: VARIABLE ANTIBODIES

Attorney Docket Number:: 50304/112001

Request of Early Publication?:: No

Request of Non-Publication?:: No

Suggested Drawing Figure:: 8

Total Drawing Sheets:: 14

Small Entity?:: Yes

Petition Included?:: No

Petition Type::

Licensed US Govt. Agency::

Contract or Grant Numbers::

Secrecy Order in Parent Appl.?:: No

Applicant Information

Applicant Authority Type:: Inventor
Primary Citizenship Country:: Belgium
Status:: Full Capacity
Given Name:: Jean-Marie
Middle Name::
Family Name:: SAINT-REMY
Name Suffix::
City of Residence:: Grez-Doiceau
State or Province of Residence::
Country of Residence:: Belgium
Street of mailing address:: Rue du Lambais 79
City of mailing address:: Grez-Doiceau
State or Province of mailing address::
Country of mailing address:: Belgium
Postal or Zip Code of mailing address:: B-1390

Correspondence Information

Correspondence Customer Number:: 21559

Representative Information

Representative Customer Number:: 21559

Applicant Authority Type:: Inventor

Primary Citizenship Country:: Belgium
Status:: Full Capacity
Given Name:: Marc
Middle Name::
Family Name:: JACQUEMIN
Name Suffix::
City of Residence:: Sart-Bernard
State or Province of Residence::
Country of Residence:: Belgium
Street of mailing address:: Rue Morimont 45
City of mailing address:: Sart-Bernard
State or Province of mailing address::
Country of mailing address:: Belgium
Postal or Zip Code of mailing address:: B-5330

Correspondence Information

Correspondence Customer Number:: 21559

Representative Information

Representative Customer Number:: 21559

Domestic Priority Information

Application:: Continuity Type:: Parent Application:: Parent Filing Date::
This Application National stage of PCT/BE2004/000118 August 16, 2004

Foreign Priority Information

Country:: Application Number:: Filing Date:: Priority Claimed::

GB	0319118.6	August 14, 2003	YES
GB	0319345.5	August 18, 2003	YES

Assignee Information

Assignee name::

Street of mailing address::

City of mailing address::

State of Province of mailing address::

Country of mailing address::

Postal or Zip Code of mailing address::

(12) INTERNATIONAL APPLICATION PUBLISHED UNDER THE PATENT COOPERATION TREATY (PCT)

(19) World Intellectual Property
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(51) International Patent Classification⁷: A61P 07/02, A61K 39/395, C07K 16/36

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(30) Priority Data:
0319118.6 14 August 2003 (14.08.2003) GB
0319345.5 18 August 2003 (18.08.2003) GB

(71) Applicant (for all designated States except US): D. COLLEN RESEARCH FOUNDATION VZW [BE/BE]; Onderwijs & Navorsing, Campus Gasthuisberg, Herestraat 49, B-3000 Leuven (BE).

(72) Inventors; and

(75) Inventors/Applicants (for US only): SAINT-REMY, Jean-Marie [BE/BE]; Rue du Lambais 79, B-1390 Grez-Doiceau (BE). JACQUEMIN, Marc [BE/BE]; Rue Morimont 45, B-5330 Sart-Bernard (BE).

(74) Agents: BIRD, William, E. et al.; Bird Goën & Co, Klein Dalenstraat 42 A, B-3020 Winksele (BE).

(81) Designated States (unless otherwise indicated, for every kind of national protection available): AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW.

(84) Designated States (unless otherwise indicated, for every kind of regional protection available): ARIPO (BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW), Eurasian (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European (AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PL, PT, RO, SE, SI, SK, TR), OAPI (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG).

Declaration under Rule 4.17:

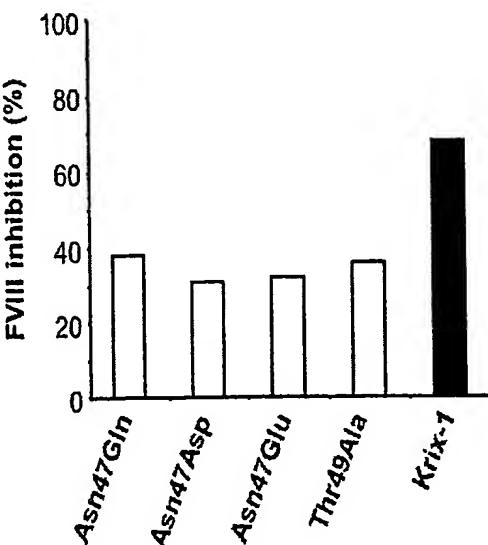
— of inventorship (Rule 4.17(iv)) for US only

Published:

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For two-letter codes and other abbreviations, refer to the "Guidance Notes on Codes and Abbreviations" appearing at the beginning of each regular issue of the PCT Gazette.

(54) Title: VARIABLE ANTIBODIES



(57) Abstract: The present invention discloses inhibitory antibodies against Factor VIII with modified glycosylation, either by enzymatic deglycosylation or by site directed mutagenesis. Said antibodies with modified glycosylation have equal affinity for FVIII but show different inhibiting properties. The use of one or a mixture of said antibodies allow modulation of the inhibition of factor VIII to levels between 40 and 95%. The present invention further disclosed pharmaceutical compositions comprising inhibitory antibodies against Factor VIII with modified glycosylation, combinations of these antibodies and methods for treating haemostasis disorders using said antibodies and antibody mixtures.

WO 2005/016455 A2

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